ABSTRACT OF THE DISCLOSURE

An apparatus and method for selecting the length of a variable length code bitstream by using a neural network are provided. The apparatus for selecting the length of a variable length code bitstream includes a bitstream estimation length receiving unit which inputs a predetermined quantization DCT coefficient block to a neural network whose training is finished, and receives the estimation length of a bitstream corresponding to the quantization DCT coefficient block from the neural network; and a bitstream estimation length selection unit which receives user selection about an estimation length received by the bitstream estimation length receiving unit. According to the method and apparatus the length of a variable length code bit stream can be estimated such that a user can select a desired length of a bitstream in advance without performing variable length coding.